

**TABLE D-1
SPECIAL STATUS CODES**

Code	Definition
FEDERAL	
Fish and Wildlife Service*	
E = Endangered	Any species that is in danger of extinction throughout all or a significant portion of its range other than a species of the Class Insecta determined by the Secretary of the Interior to constitute a pest whose protection under this Act (ESA) would present an overwhelming and overriding risk to man.
T = Threatened	Any species that is likely to become an endangered species within the foreseeable future throughout all or a significant portion of its range.
PE = Proposed endangered	Taxa already proposed for listing as endangered (a proposed rule has been published in the Federal Register)
PT = Proposed threatened	Taxa already proposed for listing as threatened (a proposed rule has been published in the Federal Register)
C1= Category 1*	Candidate species for which the FWS currently has on file substantial information on biological vulnerability and threat(s) to support the appropriateness of proposing to list the taxa as an endangered or threatened species.
C2 = Category 2*	Candidate species for which information now in possession of the FWS indicate that proposing to list the taxa as an endangered or threatened species is possibly appropriate, but for which substantial data on biological vulnerability or threat(s) are not currently known or on file to support proposed rules.
C3 = Category 3*	<p>Taxa for which the FWS has persuasive evidence of extinction (Group 3A); taxa do not meet the Endangered Species Act's definition of a species (Group 3B); and taxa that have proven to be more abundant or widespread than previously believed and/or those that are not subject to an identifiable threat (Group 3C).</p> <p>*The definitions of candidate species were revised in a proposed rule published on February 28, 1996. These changes are not reflected in this document due to the extent of changes which would have to be done to the PDEIS and associated documents including the biological resources supporting documentation (including maps, data tables, and summary information). FWS now only maintains one group of candidate species for listing. Species previously listed as Federal candidate C2 species were either listed as threatened, endangered, proposed for such listing; remain as candidates; or were dropped from consideration. Concerns for such species remain valid and FWS prefers to see information on these species considered during the planning process whenever practicable.</p>

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Code	Definition
BLM	
BLMS = BLM Sensitive	These species may be so designated at the discretion of the state director for any of several reasons. They may be under status review by the FWS, have typically small and widely dispersed populations, have numbers declining so rapidly that Federal listing may become necessary, or inhabit specialized or unique habitats or other ecological refugia.
Forest Service	
FSS = Forest Service Sensitive	This designation is to ensure that sensitive species and their occupied habitats will not be adversely affected without a thorough analysis of significance of such impacts. The intent of monitoring such species is to prevent any trend toward Federal or state listing.
Birds Protected Under One or More Federal Acts	
BEA = Bald and Golden Eagle Act	This statute prohibits taking, possessing, and trading bald and golden eagles. It provides for protection of the eagles, and defines criminal and civil penalties for violations.
MBTA = Migratory Bird Treaty Act	All birds, except house sparrows and starlings, are afforded protection under this statute.
Navajo Nation	
NESL = Navajo Nation Endangered Species List	This list is maintained and updated under the authority of the director of the Navajo Fish and Wildlife Department.
G1 = Group 1	Those species or subspecies that no longer occur on the Navajo Nation.
G2 = Group 2	Any species or subspecies that is in danger of being eliminated from all or a significant portion of its range on the Navajo Nation. These species are protected by tribal code.
G3 = Group 3	Any species or subspecies that is likely to become an endangered species, within the foreseeable future, throughout all or a significant portion of its range on the Navajo Nation. These species are protected by tribal code.
G4 = Group 4	Any species or subspecies for which the NFWD does not currently have sufficient information to support their being listed in Group 2 or Group 3, but has reason to consider them. The NFWD will actively seek information on these species to determine if they warrant inclusion in a different group or removal from the list. Species in Group 4 have no legal protection under 17 NTC, Section 507.

**TABLE D-1
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Code	Definition
NEW MEXICO	
Plants [New Mexico Endangered Plant Species Act (9-10-10)]	
L1 = List 1	<p>Plant species endangered in New Mexico. These are protected from unauthorized collection or take under the New Mexico Endangered Plant Species Act (9-10-10 NMSA) and attendant regulation 19 NMAC 21.2. These species are either in danger of becoming extinct or in danger of extirpation from the state of New Mexico. Taxa must meet one of the following criteria:</p> <p>L1A - The taxon is listed as threatened or endangered under the provisions of the Federal Endangered Species Act (16 U.S.C. Sections 1531 et seq.) or is considered proposed under the tenets of the act.</p> <p>L1B - The taxon is so rare across its entire range within the state and of such limited distribution and population size that unregulated collection could adversely impact it and jeopardize its survival in New Mexico.</p>
L2 = List 2	<p>New Mexico rare and sensitive plant species. This list contains taxa that are considered to be rare because of restricted distribution or low numerical density. They need not be endemic to New Mexico, but must be regionally endemic, rare throughout their range, or rare within threatened New Mexico habitats (wetlands). Since they are rare, these species are sensitive to long-term or cumulative land use impacts and are vulnerable to biological or climatic events that could eventually threaten them with extinction or extirpation. These species are monitored by the state of New Mexico to determine if they should ever be elevated to List 1 endangered species status. They are not protected by state statute or policy.</p>
L3 = List 3	<p>New Mexico rare plant review list. These are plants for which more information is needed. All are under consideration for Lists 1 or 2, but sufficient information is lacking to either list or reject them. Each species on this list will either be taxonomically questionable or poorly understood as to distribution and endangerment. They are not protected by state statute or policy. Some of these plants, however, are in need of prompt attention. Placement on the Review List should not diminish the concern for their continued survival in New Mexico and will hopefully stimulate interest in answering some of our questions.</p>
L4 = List 4	<p>Plant species considered but not included. This list contains all taxa occurring on the 1985 New Mexico Heritage Program Element List that were considered, but not included on Lists 1, 2, or 3. It also contains the species rejected during 1991, 1994, and 1995 interagency reviews, and taxa originally included on Lists 2 and 3 in 1992, but were later determined to be too abundant to retain.</p>

TABLE D-1 SPECIAL STATUS CODES	
Code	Definition
Wildlife	
E1 = Endangered Group 1	Species whose prospects of survival or recruitment within the state are in jeopardy.
E2 = Endangered Group 2	Species whose prospects of survival or recruitment within the state are likely to become jeopardized in the foreseeable future.
ARIZONA	
Plants (Arizona Native Plant Law)	
hs = highly safeguarded	Plants whose prospects for survival are in jeopardy which are in danger of extinction throughout all or a significant portion of their range, including plants listed Federally as endangered, threatened, or Category 1 (candidate for endangered or threatened), and their seeds and fruit.
sr = salvage restricted	This category includes plants which have a high potential for theft or vandalism and focuses on the taking of the whole or live plant.
er = export restricted	This category includes plants that may be subject to over-depletion if their exportation from this state is permitted.
sa = salvage assessed	This category includes plants which have a low potential for theft, but still have enough value for salvage to be assessed at the rates of salvage restricted plants.
hr = harvest restricted	This category includes plants that have a high potential for excessive harvesting or overcutting, and focuses on the harvest of live or dead portions of the plant.
Other	
EI = economic interest	Generally species of big game and game birds which are regulated by state or tribal agencies. Revenue is obtained by these agencies through a permit system and assessing fines to violators of regulations.

**TABLE D-1
SPECIAL STATUS CODES**

Code	Definition
Wildlife	
(Note: The state of Arizona is currently redefining these categories and may generally refer to all such species as "wildlife of concern.")	
SE = State Endangered	Those species or subspecies (a) extirpated from Arizona since the mid-1800s and/or (b) for which extinction or extirpation is highly probable unless conservation efforts are undertaken soon.
ST = State Threatened	Those species or subspecies whose continued presence in Arizona could be in jeopardy in the near future. Serious threats have been identified and populations are (a) lower than they were historically or (b) extremely local and small.
SC = State Candidate	Those species or subspecies for which threats are known or suspected, but for which substantial population declines from historical levels have not been documented (though they appear likely to have occurred).
SX = State Extinct	Those species or subspecies that are no longer extant in the wild or in captivity, anywhere.
NEVADA	
Plants	
State of Nevada CE = Critically Endangered	Critically Endangered taxa threatened with extinction, whose survival requires assistance because of over exploitation, disease, or other factors or because their habitat is threatened with destruction, drastic modification, or severe curtailment (NRS 527.260-.300).
CE#	Recommended for listing as critically endangered, pending formal listing.
CY	Protected species of cactus and yucca in accordance with the Cactus and Yucca Law (Nevada Revised Statute 527). This law is intended to alleviate poaching and habitat destruction where healthy populations of cactus or yucca exist.
Northern Nevada Native Plant Society (NNNPS) PE = Possibly Extinct	Possibly extinct in Nevada.
E = Endangered	Endangered.
T = Threatened	Threatened.
W = Watch	Potentially vulnerable taxa in need of monitoring or further data to determine status.

**TABLE D-1
SPECIAL STATUS CODES**

Code	Definition
Plants (continued)	
D = Delete	Deleted from consideration by NNNPS because they are presently considered secure, taxonomically indistinct, etc.
A = Absent	Absent currently and historically from Nevada, included on past lists, but not now under consideration.
Wildlife	
E = Endangered	Species or subspecies whose prospects for survival and reproduction are in immediate jeopardy throughout all or a significant portion of its range.
T = Threatened	Species or subspecies is rare if, although not presently threatened with extinction, it exists in such small numbers throughout all or a significant portion of its range that it may become endangered if its environment deteriorates.
P = Protected	Protected animals (mammals, birds, fish, reptiles, and amphibians) include those species not subject to an open season, nor may they be taken, possessed or otherwise acquired, except in some instances by a special permit.
R = Rare	A species or subspecies which, although not presently threatened with extinction, is in such small numbers throughout its range that it may be endangered if its environment deteriorates.
NB = Nongame Birds	Those protected by Federal law in accordance with the Migratory Bird Treaty Act of July 3, 1918 and the Eagle Act of June 8, 1940, and Federal regulations adopted pursuant thereto.
SC = Species of Special Concern	Those birds and mammals most in need of management, or require additional evaluation to determine their status, as they may be a candidate for endangered status.
S = Sensitive	This classification has been established for management purposes, and is designed to bring attention to those species that maintain a precarious balance within limited or vulnerable habitat and may have a need to be moved into a more restrictive classification based on further evaluation.

TABLE D-2a
SPECIAL STATUS SPECIES - NEW MEXICO
Special Status Species Likely to Occur in the Habitats Traversed by
the Alternative Routes for the Navajo Transmission Project
 (Note: This includes species identified as occurring or potentially occurring along all alternative routes
 inventoried in the data supporting this DEIS.)

Species		Habitat Type	Status			Occurrence	
Common Name	Scientific Name		Fed	State	Other	Known	Potential
MAMMALS							
Spotted Bat	<i>Euderma maculatum</i>	Variety of habitat types	C2	E2	NESL-4	no	moderate
Occult Little Brown Bat	<i>Myotis lucifugus occultus</i>	Great Basin desertscrub	C2			no	moderate

KEY:

Occurrence (determined for species not known to occur)

High = Known to be within species range, and habitat exists, but for which specific locations have not been identified

Moderate = Within species range, but little habitat exists; or migratory only

Low = Within historical range; however, no recent occurrences exist and habitat is minimal or highly degraded

Status*

Federal:

E = Endangered

T = Threatened

PE = Proposed Endangered

C1 = Category 1

C2 = Category 2

C3 = Category 3

3A = Extinct

3B = Taxonomically Invalid

3C = Dropped from consideration

New Mexico: (wildlife)

E1 = Endangered Group 1

E2 = Endangered Group 2

New Mexico: (plants)

L1 = List 1

L1A = List 1A

L1B = List 1B

L2 = List 2

L3 = List 3

L4 = List 4

L41 = too common in NM

L42 = widespread, not endangered in NM

L43 = not a valid taxon

Other:

NESL = Navajo Endangered Species List

1 = Group 1

3 = Group 3

2 = Group 2

4 = Group 4

BLMS = BLM Sensitive

BEA = Bald Eagle Act

EI = Economically Important

+MBTA = Migratory Bird Treaty Act (Note: All birds listed are protected by this act; therefore, "MBTA" is not listed in this table under status.)

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Common Name	Scientific Name		Fed	State	Other	Known	Potential
Big Free-tailed Bat	<i>Tadarida macrotis</i>	Predominantly occur below 6,000 feet in piñon-juniper woodland, desert grassland, and desertscrub	C2			no	low
Long-legged Myotis	<i>Myotis volans</i>	Ponderosa pine forests and occasionally in grasslands	C2			no	moderate
Pale Townsend's Big-eared Bat	<i>Plecotus townsendii</i>	Caves, rock shelters, and mines from desertscrub to spruce-fir forests	C2			no	low
Small-footed Myotis	<i>Myotis leibii</i>	Primarily associated with Ponderosa pine but known from desertscrub to low edge of spruce fir zone	C2			no	moderate
Chuska Tassel-eared Squirrel	<i>Sciurus aberti chuscensis</i>	7,000- to 8,500-foot elevation ponderosa pine forests			NESL-4	yes	
Black-footed Ferret	<i>Mustela nigripes</i>	Associated with prairie dog towns	E		NESL-2	no	low
Mink	<i>Mustela vison</i>	Along streams and lakes			NESL-2 EI	no	moderate
Swift Fox	<i>Vulpes velox</i>	Open desert and plains	C2			no	low
Southwestern River Otter	<i>Lutra canadensis sonora</i>	Along streams and lakes; may be extinct in New Mexico	C2		NESL-1	no	low

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Common Name	Scientific Name		Fed	State	Other	Known	Potential
Black Bear	<i>Ursus americanus</i>	Montane forests; Chuska Mountains			EI	yes	
American Pronghorn	<i>Antilocapra americana</i>	Open prairies and sagebrush plains			EI NESL-3	yes	
Mule Deer	<i>Odocoileus hemionus</i>	Coniferous forests, desert shrubs, chaparral, grassland with shrubs			EI	yes	
Mountain Lion	<i>Felis concolor</i>	Rugged mountains and forests. N. Hogback; Chuska Mountains			NESL-4	yes	
BIRDS+							
Black-crowned Night-heron	<i>Nycticorax nycticorax</i>	Permanent or ephemeral wetlands			NESL-4	no	moderate
White-faced Ibis	<i>Plegadis chihi</i>	Permanent or ephemeral wetlands	C2	E2		no	moderate
Belted Kingfisher	<i>Ceryle alcyon</i>	Along fresh or marine water courses			NESL-4	yes	
Bald Eagle	<i>Haliaeetus leucocephalus</i>	Riparian; Little Whiskey Creek and San Juan River woodlands	E	E2	NESL-3 BEA	yes	
Golden Eagle	<i>Aquila chrysaetos</i>	Open country in prairies, tundra, and open forest. Nest on cliff ledges and in trees; Combridge, Twin Buttes, Elephant Butte, and throughout Hogback			NESL-3 BEA BLMS	yes	

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Common Name	Scientific Name		Fed	State	Other	Known	Potential
Ferruginous Hawk	<i>Buteo regalis</i>	Open prairies, plains, and badlands near streams; S. Hogback, Lake Morgan	C2		NESL-3 BLMS	yes	
Swainson's Hawk	<i>Buteo swainsoni</i>	Savanna, open pine-oak woodland, cultivated areas with scattered trees	C3 (subgroup 3C)		NESL-2 BLMS	yes	
Northern Goshawk	<i>Accipiter gentilis</i>	Deciduous and coniferous forest edges, open woodland; N. Little Whiskey Creek; winter in piñon-juniper woodlands; nesting in ponderosa pine forests	C2		NESL-4	no	moderate
Northern Harrier	<i>Circus cyaneus</i>	Prairies, meadows, grasslands, and marshes; shores of E. Lake Morgan			NESL-4	no	high
American Peregrine Falcon	<i>Falco peregrinus anatum</i>	Open situations involving nesting cliffs; Little Whiskey Creek woodlands; San Juan River	E	E1	NESL-3	no	high
Arctic Peregrine Falcon	<i>Falco peregrinus tundrius</i>	Migratory	T			no	low
Flammulated Owl	<i>Otus flammeolus</i>	Primarily ponderosa pine, montane forests; Little Whiskey Creek woodlands			NESL-4	yes	

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Common Name	Scientific Name		Fed	State	Other	Known	Potential
Mexican Spotted Owl	<i>Strix occidentalis lucida</i>	Dense forest, both coniferous and hardwood, steep walled canyons; Little Whiskey Ck., Chuska Mountains	T (with critical habitat)		NESL-3	yes	
Northern Pygmy-owl	<i>Glaucidium gnoma</i>	Little Whiskey Creek woodlands			NESL-4	yes	
Western Burrowing Owl	<i>Athene cunicularia</i>	Open grasslands, nesting in mammal burrows	C2		NESL-4	no	moderate
Mountain Plover	<i>Charadrius montanus</i>	Dry upland prairies and plains, semidesert	C1		NESL-4	no	low
Black Tern	<i>Chlidonas niger</i>	Lake shores and marshes	C2			no	low
American Dipper	<i>Cinclus mexicanus</i>	Along mountain streams from 4,000 feet to timberline			NESL-3	no	moderate
Sora	<i>Porzana carolina</i>	Permanent wetlands; grain fields			NESL-4	no	moderate
Western Yellow-billed Cuckoo	<i>Coccyzus americanus occidentalis</i>	Open woodlands, stream-side willow and alder groves	C3 (subgroup 3B)		NESL-4	no	low
Three-toed Woodpecker	<i>Picoides tridactylus</i>	Coniferous forests, especially areas burned over			NESL-4	no	low

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Common Name	Scientific Name		Fed	State	Other	Known	Potential
Common Snipe	<i>Gallinago gallinago</i>	Year round range extended to Four-corners area			NESL-3	no	moderate
Blue Grouse	<i>Dendragapus obscurus</i>	Mixed coniferous forest and deciduous trees and shrubs; Chuska Mountains			NESL-3 EI	yes	
Merriam's Turkey	<i>Meleagris gallopavo merriami</i>	Montane forest and open woodland, meadows; Chuska Mountains			EI	yes	
Costa's Hummingbird	<i>Calypste costae</i>	Desert, semi desert, and chaparral		E2		no	low
Loggerhead Shrike	<i>Lanius ludovicianus</i>	Savanna, desertscrub, and less often, open woodland	C2			no	high
Southwestern Willow Flycatcher	<i>Empidonax traillii extimus</i>	Buttonbush swamps of Sonoran zones, dense willow thickets; tamarisk	E (with critical habitat)	E2	NESL-3	no	moderate
Hammond's Flycatcher	<i>Empidonax hammondii</i>	Fir forest and open woodland, 8,500 to 10,000 feet			NESL-4	no	low
Purple Martin	<i>Progne subis</i>	Near permanent water source and in suburban areas			NESL-4	no	moderate
Bell's Vireo	<i>Vireo belli</i>	Mesquite, scrub oak, chaparral, and riparian areas		E2		no	low

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Common Name	Scientific Name		Fed	State	Other	Known	Potential
Gray Vireo	<i>Vireo vincinior</i>	Oak-juniper, piñon-juniper, dry chaparral, and riparian areas		E2		no	high
Yellow Warbler	<i>Dendroica petechia</i>	Open woodlands, wetlands, and orchards			NESL-4	no	moderate
Clark's Grebe	<i>Aechmophorus clarkii</i>	Broad freshwater lakes			NESL-4	no	low
Tree Swallow	<i>Tachycineta bicolor</i>	Any wooded habitat near water, esp. with abundant snags			NESL-4	no	moderate
Marsh Wren	<i>Cistothorus palustris</i>	Reedy marshes, or cattail swamps			NESL-4	no	moderate
Baird's Sparrow	<i>Ammodramus bairdii</i>	Short grass prairie with scattered low bushes	C2			no	low
REPTILES AND AMPHIBIANS							
Chorus Frog	<i>Pseudacris triseriata</i>	Aquatic			NESL-4	no	moderate
Milk Snake	<i>Lampropeltis triangulum</i>	Variety of habitats			NESL-4	no	low
Narrow-headed Garter Snake	<i>Thamnophis rufipunctatus</i>	Piñon-juniper into ponderosa pine forests along permanent or semi permanent streams	C2	E2		no	low

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Common Name	Scientific Name		Fed	State	Other	Known	Potential
FISHES							
Gila Trout	<i>Oncorhynchus gilae</i>	Aquatic	E	E2		no	low
Roundtail Chub	<i>Gila robusta</i>	Aquatic; San Juan River	C2	E2	NESL-2	yes	
Gila Chub	<i>Gila intermedia</i>	Aquatic; Gila River basin	C2	E1		no	none
Razorback Sucker	<i>Xyrauchen texanus</i>	Aquatic, San Juan River (designated critical habitat)	E		NESL-2	no	low
Flannelmouth Sucker	<i>Catostomus latipinnis</i>	Aquatic; San Juan River and Tappen Wash	C2		NESL-4	yes	
Zuni Bluehead Sucker	<i>Pantosteus discobolos yarrowi</i>	Aquatic; Little Whiskey Creek and San Juan River		E1		yes	
Little Colorado Spinedace	<i>Lepidomeda vittata</i>	Aquatic	T			no	moderate
Speckled Dace	<i>Rhinichthys osculus</i>	Aquatic; pool-and-riffle creeks	C2		NESL-4	yes	
Mottled Sculpin	<i>Cottus bairdi</i>	Aquatic; San Juan River			NESL-4	yes	
Colorado Squawfish	<i>Ptychocheilas lucius</i>	Aquatic, San Juan River (designated critical habitat)	E	E1	NESL-2	no	low

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Common Name	Scientific Name		Fed	State	Other	Known	Potential
PLANTS							
Goodding Onion	<i>Allium gooddingii</i>	Mature forests, along north-trending drainage bottoms; mixed conifer and spruce-fir woodlands	C1	L1B	NESL-3	yes	
San Juan Milkweed	<i>Asclepias sanjuanensis</i>	Great Basin desertscrub	C3 (subgroup 3B)	L3		no	moderate
Zuni Milkvetch	<i>Astragalus accumbens</i>	Gravelly clay soils; piñon-juniper woodlands and sagebrush 7,500 to 7,900 elevation	C3 (subgroup 3C)	L2		no	low
Chuska Mountain Milkvetch	<i>Astragalus chuskanus</i>	Sandstone substrates in the Chuska Mountains; transition zone between ponderosa pine and Douglas-fir-white fir; 7,500-10,000 feet elevation		L2		no	high
Mancos Milkvetch	<i>Astragalus humillimus</i>	Sandstone ledges and mesas; Great Basin desertscrub	E	L1A	NESL-2	yes	
Chaco Milkvetch	<i>Astragalus micromerius</i>	Sandstone areas; piñon-juniper woodlands, Great Basin desertscrub		L2		no	moderate

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Common Name	Scientific Name		Fed	State	Other	Known	Potential
Monument Valley Milkvetch	<i>Astragalus monumentalis</i> var. <i>monumentalis</i>	Sandstone areas; piñon-juniper woodlands, Great Basin desertscrub	C3 (subgroup 3C)	L3		yes	
Cottam's Milkvetch	<i>Astragalus monumentalis</i> var. <i>cottami</i>	Sandstone areas; piñon-juniper woodlands, Great Basin desertscrub	C3 (subgroup 3C)	L41		yes	
Naturita Milkvetch	<i>Astragalus naturitensis</i>	Sandstone areas; piñon-juniper woodlands	C3 (subgroup 3C)	L2	NESL-4	yes	
Arizona Leatherflower	<i>Clematis hirsutissima</i> var. <i>arizonica</i>	Ponderosa pine forests	C1	L3	NESL-4	no	high
Plains Pincushion Cactus	<i>Coryphantha</i> (= <i>Escobaria</i>) <i>missouriensis</i> var. <i>missouriensis</i>	Piñon-juniper woodlands, plains and Great Basin grasslands		L3		no	low
Handsome Cat's-eye, or Paradox Valley Cat's-eye	<i>Cryptantha paradoxa</i>	Piñon-juniper woodlands, Great Basin desertscrub	C3 (subgroup 3C)	L4		yes	
Acoma Fleabane	<i>Erigeron acomanus</i>	Sandstone areas; piñon-juniper woodlands	C2	L2	NESL-3	no	low
Rhizome, or Zuni, Fleabane	<i>Erigeron rhizomatus</i>	Seleniferous shale; piñon-juniper woodlands	T	L1A	NESL-4	no	low

TABLE D-2a
SPECIAL STATUS SPECIES - NEW MEXICO
Special Status Species Likely to Occur in the Habitats Traversed by
the Alternative Routes for the Navajo Transmission Project
 (Note: This includes species identified as occurring or potentially occurring along all alternative routes
 inventoried in the data supporting this DEIS.)

Species		Habitat Type	Status			Occurrence	
Common Name	Scientific Name		Fed	State	Other	Known	Potential
Aztec, or Splendid, Gilia	<i>Gilia formosa</i>	Clay or silty soils derived from sandstone; piñon-juniper woodlands, Great Basin desertscrub	C2	L1B		no	low
Wright's Pincushion Cactus	<i>Mammillaria wrightii</i>	Gravelly, sandy hills; piñon-juniper woodlands, Great Basin and Plains grasslands		L1B		no	moderate
Eastwood Phacelia	<i>Phacelia splendens</i>	Shale; Great Basin desertscrub		L2		yes	
Mancos Saltbush	<i>Proatriplex pleiantha</i>	Shale; Great Basin desertscrub	C3 (subgroup 3C)	L2		yes	
Mesa Verde Cactus	<i>Sclerocactus mesae-verde</i>	Barren shales; Great Basin desertscrub	T	L1A	NESL-3	yes	

*Status definitions are found in text.

Sources: FWS 1993a, 1995a; Morefield and Knight 1991; NFWD, NVNHP 1993, 1995; NMNHP 1993; Sivinski and Lightfoot 1995

**TABLE D-2b
SPECIAL STATUS SPECIES - ARIZONA**

**Special Status Species Likely to Occur in the Habitats Traversed by
the Alternative Routes for the Navajo Transmission Project**

(Note: This includes species identified as occurring or potentially occurring along all alternative routes
inventoried in the data supporting this DEIS.)

Inventories in the data supporting this DEIS.

Species		Habitat Type	Status			Occurrence	
Common Name	Scientific Name		Fed	State	Other	Known	Potential
MAMMALS							
Spotted Bat	<i>Euderma maculatum</i>	Variety of habitat types	C2	C	NESL-4	no	moderate
Red Bat	<i>Lasiurus borealis</i>	Variety of wooded habitats		C		no	moderate
California Leaf-nosed Bat	<i>Macrotis californicus</i>	Caves, mine tunnels of W. and S. Arizona deserts, Southern Nevada and NE California		C		no	moderate
Occult Little Brown Bat	<i>Myotis lucifugus occultus</i>	Great Basin and Mohave desertscrub	C2		FSS	no	moderate

KEY:

Occurrence (determined for those species not known to occur)

High - Known to be within species range, and habitat exists, but for which known locations have not been identified.

Moderate - Within species range, but little habitat exists, or migratory.

Low - Within species historical range, but lacking habitat.

Status*

Federal:

E = Endangered

T = Threatened

PE = Proposed Endangered

C1 = Category 1

C2 = Category 2

C3 = Category 3

3A = Extinct

3B = Taxonomically Invalid

3C = Dropped from consideration

Arizona: (wildlife)

E = Endangered

T = Threatened

C = Candidate

Arizona: (plants)

(Follow Federal categories)

(Follow Federal)

ANPL = Native Plant Law

Other:

NESL = Navajo Endangered Species List

1 = Group 1 3 = Group 3

2 = Group 2 4 = Group 4

FSS = Forest Service Sensitive

BLMS = BLM Sensitive

BEA = Bald Eagle Act

EI = Economically Important

+MBTA = Migratory Bird Treaty Act

(Note: All birds listed are protected by this act; therefore, "MBTA" is not listed in this table under status.)

**TABLE D-2b
SPECIAL STATUS SPECIES - ARIZONA**

**Special Status Species Likely to Occur in the Habitats Traversed by
the Alternative Routes for the Navajo Transmission Project**

(Note: This includes species identified as occurring or potentially occurring along all alternative routes inventoried in the data supporting this DEIS.)

Species		Habitat Type	Status			Occurrence	
Common Name	Scientific Name		Fed	State	Other	Known	Potential
Allen's Big-eared Bat	<i>Idionycteris phyllotis</i>	Predominantly associated with piñon-juniper woodlands and ponderosa pine forests	C2			no	low
Small-footed Myotis	<i>Myotis leibii</i>	Desertscrub, chaparral, oak woodlands, riparian habitats with juniper and oak	C2			no	moderate
Long-eared Myotis	<i>Myotis evotis</i>	Coniferous forests on the Kaibab and Mogollon plateaus and the Chiricahua Mountains	C2			no	low
Fringed Myotis	<i>Myotis thysanodes</i>	Chaparral to ponderosa pine forests	C2			no	moderate
Cave Myotis	<i>Myotis velifer</i>	Desertscrub communities in close proximity to a permanent water source	C2			no	low
Long-legged Myotis	<i>Myotis volans</i>	Ponderosa pine and mixed conifer forests	C2			no	moderate
Big free-tailed Bat	<i>Tadarida macrotis</i>	Desertscrub, piñon-juniper woodlands, ponderosa pine forests, Douglas-fir	C2			no	low
Yuma Myotis	<i>Myotis yumanensis</i>	Present along perennial streams, such as the Colorado and Little Colorado rivers	C2			no	moderate
Pale Townsend's Big-eared Bat	<i>Plecotus townsendii</i>	Caves or mine tunnels in desertscrub, oak woodland, piñon-juniper woodland, and coniferous forests	C2			no	moderate

**TABLE D-2b
SPECIAL STATUS SPECIES - ARIZONA**

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Species		Habitat Type	Status			Occurrence	
Common Name	Scientific Name		Fed	State	Other	Known	Potential
Hualapai Southern Pocket Gopher	<i>Thomomys umbrinus hualpaiensis</i>	Montane vegetation from 4,300 to 6,200 feet	C2			no	low
Wupatki or Coconino Arizona Pocket Mouse	<i>Perognathus amplus cineris</i>	Desertscrub habitats characterized by greasewood, ephedra, shortgrass, rabbitbrush	C2		FSS	yes	
Navajo Mountain Mexican Vole	<i>Microtus mexicanus navaho</i>	Dry grassy habitats adjacent to ponderosa pine, Western Mogollon Plateau, and Navajo Mountain from 6,500 to 11,500 feet	C2	T	NESL-4	no	low
Hualapai Mexican Vole	<i>Microtus mexicanus hualpaiensis</i>	Dry grassy habitat adjacent to ponderosa pine, Hualapai Mountains, and Prospect Valley from 6,500 to 11,500 feet	E	E	FSS	no	moderate
Marble Canyon, or Houserock Valley, Chisel-toothed Kangaroo Rat	<i>Dipodomys microps leucotis</i>	Mohave desertscrub and juniper grasslands; lower elevations north of the Colorado River 3,500 to 5,400 feet	C2	C	NESL-4	no	low
New Mexico Banner-tailed Kangaroo Rat	<i>Dipodomys spectabilis baileyi</i>	Desert grasslands with catclaw, mesquite, and Opuntia, from 1,300 to 5,000 feet		E		no	moderate
Chuska Tassel-eared Squirrel	<i>Sciurus aberti chuscensis</i>	7,000 to 8,500 feet elevation yellow pine forests; Chuska and Lukachukai mountains			NESL-4	yes	
Black-footed Ferret	<i>Mustela nigripes</i>	Associated with prairie dog towns located in plains and desert grasslands	E	E	NESL-2 FSS	no	reintroduction in Aubrey Valley, March 1996

**TABLE D-2b
SPECIAL STATUS SPECIES - ARIZONA**

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Species		Habitat Type	Status			Occurrence	
Common Name	Scientific Name		Fed	State	Other	Known	Potential
Southwestern River Otter	<i>Lutra canadensis sonora</i>	Along streams and lakes; Lake Mead NRA	C2	E	NESL-1 FSS	no	low
Black Bear	<i>Ursus americanus</i>	Montane forests; Chuska Mountains			EI	yes	
American Pronghorn Antelope	<i>Antilocapra americana</i>	Plains and meadows of grasslands characterized by rolling or dissected hills			NESL-3	yes	
Mule Deer	<i>Odocoileus hemionus</i>	Coniferous forests, desert shrub, and chaparral; grassland with shrubs			EI	yes	
Desert Bighorn Sheep	<i>Ovis canadensis nelsoni</i>	Open areas in mountains			NESL-3	yes	
Mountain Lion	<i>Felis concolor</i>	Rugged mountains and forests (i.e., Chuska and Black mountains)			NESL-4	yes	high
BIRDS+							
American Bittern	<i>Botaurus lentiginosus</i>	Fresh water and brackish marshes; tall vegetation		C		no	low
Western Least Bittern	<i>Ixobrychus exilis hesperis</i>	Fresh water marshes; tall vegetation	C2	C		no	low
Green-backed Heron	<i>Butorides striatus</i>	Permanent or ephemeral wetlands			NESL-4	no	moderate
Black-crowned Night-heron	<i>Nycticorax nycticorax</i>	Permanent or ephemeral wetlands			NESL-4	no	moderate
Snowy Egret	<i>Egretta thula</i>	Permanent or ephemeral wetlands		T		no	moderate

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Species		Habitat Type	Status			Occurrence	
Common Name	Scientific Name		Fed	State	Other	Known	Potential
White-faced Ibis	<i>Plegadis chihi</i>	Permanent or ephemeral wetlands	C2			no	high
Belted Kingfisher	<i>Ceryle alcyon</i>	Along fresh or marine water courses			FSS NESL-4	yes	
Osprey	<i>Pandion haliaetus</i>	Riparian		T	FSS	no	high
Bald Eagle	<i>Haliaeetus leucocephalus</i>	Riparian; Little Colorado and Colorado river woodlands	E	E	NESL-3 BEA	yes	
Golden Eagle	<i>Aquila chrysaetos</i>	Open country in prairies and open forest. Nest on cliff ledges and in trees; Twin Buttes, Shonto Butte; Hopi Buttes, and Chuska Mountains			NESL-3 BEA BLMS	yes	
Ferruginous Hawk	<i>Buteo regalis</i>	Open prairies, plains, and badlands near streams; Hualapai Valley	C2	T	FSS NESL-3 BLMS	yes	
Swainson's Hawk	<i>Buteo swainsoni</i>	Savanna, open pine-oak woodland, cultivated areas with scattered trees; Hualapai Valley	C3 (sub-group 3C)		NESL-2 BLMS FSS	yes	
Northern Goshawk	<i>Accipiter gentilis</i>	Deciduous and coniferous forest edges, open woodland	C2	C	NESL-4 FSS	yes	
Northern Harrier	<i>Circus cyaneus</i>	Prairies, meadows, grasslands, and marshes			NESL-4	yes	

**TABLE D-2b
SPECIAL STATUS SPECIES - ARIZONA**

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Species		Habitat Type	Status			Occurrence	
Common Name	Scientific Name		Fed	State	Other	Known	Potential
American Peregrine Falcon	<i>Falco peregrinus anatum</i>	Open situations involving nesting cliffs; Grand Wash Cliffs, Music Mountains, Colorado River, Black Mesa	E	C	NESL-3 FSS	no	high
Arctic Peregrine Falcon	<i>Falco peregrinus tundrius</i>	Migrant	T			no	low
Flammulated Owl	<i>Otus flammeolus</i>	Primarily ponderosa pine and montane forests with a well-developed understory			NESL-4 FSS	no	high
Mexican Spotted Owl	<i>Strix occidentalis lucida</i>	Dense forest, both coniferous and hardwood, steep walled canyons; Chuska Mountains	T (with critical habitat)	T	NESL-3 FSS	yes	
Northern Pygmy-owl	<i>Glaucidium gnoma</i>	Coniferous, hardwood, mixed and pine-oak associations in both dense and open forests			NESL-4	no	high
Snowy Plover	<i>Charadrius alexandrinus</i>	Barren sandy beaches and dry mud or salt flats		C		no	low
Mountain Plover	<i>Charadrius montanus</i>	Dry upland prairies and plains, plowed fields, and sandy deserts	C1		NESL-4	no	low
Black Tern	<i>Chlidonas niger</i>	Lake shores and marshes and wet meadows; migrates along Colorado River	C2			no	high
American Dipper	<i>Cinclus mexicanus</i>	Along mountain streams from 4,000 feet to timberline in the Chuska Mountains; transient along the Colorado River			NESL-3	no	moderate

**TABLE D-2b
SPECIAL STATUS SPECIES - ARIZONA**

**Special Status Species Likely to Occur in the Habitats Traversed by
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Species		Habitat Type	Status			Occurrence	
Common Name	Scientific Name		Fed	State	Other	Known	Potential
Sora	<i>Porzana carolina</i>	Permanent wetlands; grain fields			NESL-4	no	low
Western Yellow-billed Cuckoo	<i>Coccyzus americanus occidentalis</i>	Open woodlands, stream-side willow and alder groves and mesquite bosques	3B	T	NESL-4	no	low
Three-toed Woodpecker	<i>Picoides tridactylus</i>	Coniferous forests, especially areas burned over; known from San Francisco Mountains			NESL-4	no	low
Common Snipe	<i>Gallinago gallinago</i>	Year-round range extended to Four Corners area			NESL-3	yes	
Scaled Quail	<i>Callipepla squamata</i>	Desert grasslands, thorn scrubland			EI	no	low
Blue Grouse	<i>Dendragapus obscurus</i>	Mixed coniferous forest and deciduous trees and shrubs; Chuska Mountains			NESL-3 EI	yes	
Merriam's Turkey	<i>Meleagris gallopavo merriami</i>	Montane forest and open woodland, meadows; Chuska Mountains			EI	yes	
Loggerhead Shrike	<i>Lanius ludovicianus</i>	Savanna, desert scrub, and less often, open woodland	C2			no	high
Southwestern Willow Flycatcher	<i>Empidonax traillii extimus</i>	Buttonbush swamps of Sonoran zones, dense willow	E (with designated critical habitat)	E	NESL-3	no	low

**TABLE D-2b
SPECIAL STATUS SPECIES - ARIZONA**

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Species		Habitat Type	Status			Occurrence	
Common Name	Scientific Name		Fed	State	Other	Known	Potential
Hammond's Flycatcher	<i>Empidonax hammondi</i>	Fir forest and open woodland; 8,500 to 10,000 feet			NESL-4	no	moderate
Black-billed Magpie	<i>Pica pica</i>	Riparian and open woodland areas		C		no	low
Gray Catbird	<i>Dumetella carolinensis</i>	Dense shrub along forest edge		T		no	low
Purple Martin	<i>Progne subis</i>	Near permanent water source and in suburban areas			NESL-4	no	moderate
Yellow Warbler	<i>Dendroica petechia</i>	Open woodlands, wetlands, and orchards			NESL-4	no	high
Clark's Grebe	<i>Aechmophorus clarkii</i>	Broad freshwater lakes; known from lakes along the Colorado River			NESL-4	no	moderate
Tree Swallow	<i>Tachycineta bicolor</i>	Riparian habitat; rare in northern Arizona			NESL-4	no	low
Marsh Wren	<i>Cistothorus palustris</i>	Reedy marshes, or cattail swamps			NESL-4	no	low
California Condor	<i>Gymnogyps californianus</i>	Mountains and arid foothills	E	E		no	scheduled for reintroduction
Pine Grosbeak	<i>Pinicola enucleator</i>	Open coniferous woods and suburban areas		C		no	low

**TABLE D-2b
SPECIAL STATUS SPECIES - ARIZONA**

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Species		Habitat Type	Status			Occurrence	
Common Name	Scientific Name		Fed	State	Other	Known	Potential
REPTILES AND AMPHIBIANS							
Northern Leopard Frog	<i>Rana pipiens</i>	Desert lowland to mountainous water sources; Tappen Springs		C	NESL-4	yes	
Lowland Leopard Frog	<i>Rana yavapaiensis</i>	Aquatic		C		no	moderate
Chorus Frog	<i>Pseudacris triseriata</i>	Aquatic			NESL-4	no	low
Arizona Toad	<i>Bufo microscaphus microscaphus</i>	Aquatic; headwaters of tributaries of the Colorado River; known from Milkweed Canyon	C2			yes	
Desert Tortoise (Sonoran Population)	<i>Gopherus agassizii</i>	Mohave desertscrub	C2	C	FSS	yes	
Chuckwalla	<i>Sauromalus obesus</i>	Mohave desertscrub, rocky areas	C2		NESL-4	yes	
Banded Gila Monster	<i>Heloderma suspectum circutum</i>	Mohave desertscrub	C2		BLMS	yes	
Milk Snake	<i>Lampropeltis triangulum</i>	Variety of habitats, drainage of Little Colorado			NESL-4	yes	
Mexican Garter Snake	<i>Thamnophis eques</i>	Pine oak forest, mesquite grassland, and desert in or near water	C2	C		no	moderate
Narrow-headed Garter Snake	<i>Thamnophis rufipunctatus</i>	Piñon-juniper, oak-pine, into ponderosa pine forests along permanent or semi- permanent streams	C2	C	FSS	no	moderate

**TABLE D-2b
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Species		Habitat Type	Status			Occurrence	
Common Name	Scientific Name		Fed	State	Other	Known	Potential
FISHES (many of the occurrences are based on historical range)							
Gila Trout	<i>Oncorhynchus gilae</i>	Aquatic	E	E		no	low
Apache Trout	<i>Oncorhynchus apache</i>	Aquatic	T	T		no	low
Roundtail Chub	<i>Gila robusta</i>	Aquatic; Colorado River	C2	T	NESL-2	yes	
Bonytail Chub	<i>Gila elegans</i>	Aquatic; Colorado River (designated critical habitat) Lake Mohave	E	E	NESL-1	no	moderate
Humpback Chub	<i>Gila cypha</i>	Aquatic; Little Colorado River; designated Colorado River (critical habitat)	E	E	NESL-2 FSS	yes	
Gila Chub	<i>Gila intermedia</i>	Aquatic; Gila River basin	C2	T		no	none
Razorback Sucker	<i>Xyrauchen texanus</i>	Aquatic, Colorado River (designated critical habitat) Lake Mohave	E	E	NESL-2 FSS	yes	
Flannelmouth Sucker	<i>Catostomus latipinnis</i>	Aquatic; Little Colorado and Tappen Wash	C2		NESL-4	yes	
Zuni Bluehead Sucker	<i>Pantosteus discobolos yarrowi</i>	Aquatic		C		yes	
Little Colorado Spinedace	<i>Lepidomeda vittata</i>	Aquatic	T	T		no	moderate
Speckled Dace	<i>Rhinichthys osculus</i>	Aquatic; pool-and-riffle creeks; generally above 3,500 feet elevation	C2		NESL-4	yes	
Mottled Sculpin	<i>Cottus bairdi</i>	Aquatic			NESL-4	yes	

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Species		Habitat Type	Status			Occurrence	
Common Name	Scientific Name		Fed	State	Other	Known	Potential
Colorado Squawfish	<i>Ptychocheilus lucius</i>	Aquatic; Colorado River (designated critical habitat)	E	E	NESL-2	no	low
INVERTEBRATES							
Arizona Giant Sand Treader Cricket	<i>Daihinibaenetes arizonensis</i>	Sandy washes, dunes	C2			no	low
Blue-black Silverspot Butterfly	<i>Speyeria nokomis nigrocaerulea</i>	Streamside meadows	C3 (sub-group 3B)		NESL-4	no	low
Navajo Jerusalem Cricket	<i>Stenopelmatus navajo</i>	Sandy washes, dunes	C2			no	low
PLANTS							
Goodding Onion	<i>Allium gooddingii</i>	Mature forests along north-trending drainage bottoms; mixed conifer and spruce-fir woodlands	C1	C1 ANPL	FSS NESL-3	no	moderate
Roaring Springs Prickle Poppy	<i>Argemone arizonica</i>	Steep slopes; pine forests, 3,300 to 6,500 feet elevation	C2	C2	FSS	no	moderate
Welsh's Milkweed	<i>Asclepias welshii</i>	Semi-stabilized and actively shifting sand dunes; open, sparsely vegetated	T	T ANPL	NESL-4	no	moderate
Freckled Milkvetch	<i>Astragalus lentiginosus var. ambiguus</i>	Limestone or granite on open hillsides	C2	C2		no	high

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Species		Habitat Type	Status			Occurrence	
Common Name	Scientific Name		Fed	State	Other	Known	Potential
Gladiator Milkvetch	<i>Astragalus xiphoides</i>	Gypsum or gypsiferous sand near the Chinle Formation	C2	C2	NESL-4	yes	
Atwood's Camissonia	<i>Camissonia atwoodii</i>	Salt desertshrub community	C2		NESL-4	no	low
Primrose	<i>Camissonia specuicola ssp. hesperia</i>	Havasü and Hualapai Canyons, Separation to Spencer Canyon; 2,300 to 3,500 feet	C2	C2		no	low
Navajo Sedge	<i>Carex specuicola</i>	Vertical cliffs of Navajo pink sandstone; seep-springs	T (with critical habitat)	T ANPL	NESL-3	yes	
Tusayan or disturbed Rabbitbrush	<i>Chrysothamnus molestus</i>	Calcareous deposits piñon-juniper woodlands or Great Basin grasslands	C2	C2	NESL-4	yes	
Arizona Leatherflower	<i>Clematis hirsutissima var. arizonica</i>	Kaibab limestone; piñon-juniper woodlands/ponderosa pine transition zone	C1	C1 ANPL	FSS NESL-4	no	high
Cameron Water-parsley, or Bighead Water Parsnip	<i>Cymopterus megacephalus</i>	Moenkopi shale near Little Colorado River	C2	C2		no	moderate
Ripley Wild Buckwheat	<i>Eriogonum ripleyi</i>	Tertiary lake bed deposits	C2	C2		no	low
Flagstaff Pennyroyal	<i>Hedeoma diffusum</i>	Outcrops of dolomitic upper Kaibab limestone, level open spots; ponderosa pine forests, 6,000 to 7,000 feet elevation	C3 (sub-group 3C)		FSS NESL-4	no	low

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SPECIAL STATUS SPECIES - ARIZONA**

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Species		Habitat Type	Status			Occurrence	
Common Name	Scientific Name		Fed	State	Other	Known	Potential
Brady Pincusion Cactus	<i>Pediocactus bradyi</i>	Kaibab limestone overlying soils derived from Moenkopi shale and sandstone outcrops; Great Basin desertscrub	E	E ANPL	NESL-2	no	moderate
Fickeisen Plains Cactus	<i>Pediocactus peeblesianus</i> var. <i>fickeiseniae</i>	Kaibab limestone; Great Basin desert, Great Plains grasslands	C1	C1 ANPL	FSS NESL-3	no	high
Peebles Navajo Cactus	<i>Pediocactus peeblesianus</i> var. <i>peeblesianus</i>	Gravelly soils of the Shinarump conglomerate of the Chinle formation; sparsely scattered shrubs, 5,400 to 5,600 feet elevation	E	E ANPL		no	low
Rosy Twotone Beardtongue	<i>Penstemon bicolor</i> ssp. <i>roseus</i>	Gravelly soils, washes; Mohave desertscrub	C2			no	high
Sunset Crater Beardtongue	<i>Penstemon clutei</i>	Cinder cones; ponderosa pine parklands	C2	C2		yes	
Nipple Beach Phacelia	<i>Phacelia mammilarensis</i>	Salt and mixed desertscrub communities	C3 (sub-group 3C)			yes	
Cinder Phacelia	<i>Phacelia serrata</i>	Volcanic cinder substrate	C2	C2		yes	
Welsh Phacelia	<i>Phacelia welshii</i>	Gravelly washes, Moenkopi formation; Great Basin desertscrub	C2	C2	NESL-4	no	moderate
Arizona Cinquefoil	<i>Potentilla multifoliolata</i>	Gravelly washes; 6,000 to 7,500 feet elevation	C3 (sub-group 3C)	3C	FSS	no	low

**TABLE D-2b
SPECIAL STATUS SPECIES - ARIZONA**

**Special Status Species Likely to Occur in the Habitats Traversed by
the Alternative Routes for the Navajo Transmission Project**

(Note: This includes species identified as occurring or potentially occurring along all alternative routes
inventoried in the data supporting this DEIS.)

Species		Habitat Type	Status			Occurrence	
Common Name	Scientific Name		Fed	State	Other	Known	Potential
Whiting Indigo Bush	<i>Psoralea thompsoniae</i> var. <i>whitingii</i>	Sandy clays; Great Basin desertscrub	C2	C2	NESL-4	no	high
Parish Alkali Grass	<i>Puccinellia parishii</i>	Moist, saline soils; variety of habitats	PE	PE ANPL	NESL-2	no	moderate
Arizona Cliffrose	<i>Purshia subintegra</i>	Tertiary limestone lakebed deposits	E	E ANPL		no	low
Grand Canyon Rose	<i>Rosa stellata</i> ssp. <i>abyssa</i>	Limestone derived soils	C2	C2	FSS	no	low
San Francisco Peaks Groundsel	<i>Senecio franciscanus</i>	Talus slopes; spruce-fir or bristlecone forests	T	T ANPL		no	none
Tusayan Flame Flower	<i>Talinum validulum</i>	Shallow, rocky soils; piñon-juniper woodlands, ponderosa pine forests	C2	C2		yes	

* Status definitions are found in text.

Sources: AGFD 1994; FWS 1993 a,b,c, 1995; Kearney and Peebles 1960; Morefield and Knight 1991; NFWF, NHP 1993; Rutman 1992; Welsh et al. 1987

**TABLE D-2c
SPECIAL STATUS SPECIES - NEVADA**

**Special Status Species Likely to Occur in the Habitats Traversed by
the Alternative Routes for the Navajo Transmission Project**

(Note: This includes species identified as occurring or potentially occurring along all alternative routes
inventoried in the data supporting this DEIS.)

Species		Habitat Type	Status			Occurrence	
Common Name	Scientific Name		Fed	State	Other	Known	Potential
MAMMALS							
Spotted Bat	<i>Euderma maculatum</i>	Variety of habitat types	C2	R		no	moderate
Greater Western Mastiff Bat	<i>Eumops perotis</i>	Crevices and shallow caves in desertscrub communities	C2			no	low
Allen's Big-eared Bat	<i>Idionycteris phyllotis</i>	Mountainous forested habitats	C2			no	low

KEY:

Occurrence (determined for those species not known to occur)

High = known to be within species range, and habitat exists, but for which known locations have not been identified.

Moderate = within species range but little habitat exists, or migrating only.

Low = within species range but lacking habitat.

Status*

Federal:

E = Endangered

T = Threatened

PE = Proposed Endangered

C1 = Category 1

C2 = Category 2

C3 = Category 3

3A = Extinct

3B = Taxonomically Invalid

3C = Dropped from consideration

Nevada: (wildlife)

P = Protected

E = Endangered

R = Rare

SC = Species of Special Concern

S = Sensitive

Nevada: (plants)

CE = critically endangered

CE# = recommended for

listing as CE

CY = Cactus and Yucca Law

NNNPS = Northern Nevada Native Plant Society

E = Endangered

T = Threatened

W = Watch

D = Delete

Other:

BEA = Bald Eagle Act

BLMS = BLM Sensitive

EI = Economic Importance

+MBTA = Migratory Bird Treaty Act

(Note: All birds listed are protected
by this act; therefore, "MBTA" is
not listed under status.)

**TABLE D-2c
SPECIAL STATUS SPECIES - NEVADA**

**Special Status Species Likely to Occur in the Habitats Traversed by
the Alternative Routes for the Navajo Transmission Project**
(Note: This includes species identified as occurring or potentially occurring along all alternative routes
inventoried in the data supporting this DEIS.)

Species		Habitat Type	Status			Occurrence	
Common Name	Scientific Name		Fed	State	Other	Known	Potential
California Leaf-nosed Bat	<i>Macrotis californicus</i>	Caves and mines in desertscrub habitat	C2			no	moderate
Small-footed Myotis	<i>Myotis leibii</i>	Variety habitats in the vicinity of water	C2			no	moderate
Long-eared Myotis	<i>Myotis evotis</i>	Piñon-juniper woodlands	C2			no	low
Fringed Myotis	<i>Myotis thysanodes</i>	Primarily inhabit oak-piñon woodlands but are found from desertscrub to fir forests	C2			no	moderate
Cave Myotis	<i>Myotis velifer</i>	Desertscrub communities in close proximity to water	C2			no	moderate
Long-legged Myotis	<i>Myotis volans</i>	Primarily inhabit conifer forests but may occur in desertscrub habitats near water	C2			no	moderate
Yuma Myotis	<i>Myotis yumanensis</i>	Desertscrub and grasslands with a permanent water source nearby	C2			no	high
Pale Townsend's Big-eared Bat	<i>Plecotus townsendii</i>	Ponderosa pine forests, deciduous forests, and piñon-juniper woodlands	C2			no	low
Southwestern River Otter	<i>Lutra canadensis sonora</i>	Along streams and lakes; Lake Mead NRA	C2			no	low
Desert Bighorn Sheep	<i>Ovis canadensis</i>	Open areas near broken escape country			EI	yes	
BIRDS+							
Western Least Bittern	<i>Ixobrychus exilis hesperis</i>	Fresh water marshes; tall vegetation	C2			no	moderate

**TABLE D-2c
SPECIAL STATUS SPECIES - NEVADA**

**Special Status Species Likely to Occur in the Habitats Traversed by
the Alternative Routes for the Navajo Transmission Project**
(Note: This includes species identified as occurring or potentially occurring along all alternative routes
inventoried in the data supporting this DEIS.)

Species		Habitat Type	Status			Occurrence	
Common Name	Scientific Name		Fed	State	Other	Known	Potential
White-faced Ibis	<i>Plegadis chihi</i>	Permanent or ephemeral wetlands	C2	P		no	moderate
Belted Kingfisher	<i>Ceryle alcyon</i>	Along fresh water courses		P		yes	
Osprey	<i>Pandion haliaetus</i>	Riparian; along Lower Colorado River		P		no	high
Bald Eagle	<i>Haliaeetus leucocephalus</i>	Riparian; Colorado River woodlands.	E	E	BEA	yes	
Golden Eagle	<i>Aquila chrysaetos</i>	Open country in prairies, tundra, and open forest; nest on cliff ledges and in trees		P	BEA BLMS	yes	
Ferruginous Hawk	<i>Buteo regalis</i>	Open prairies, plains, and badlands near streams	C2	P	BLMS	yes	
Southwestern Willow Flycatcher	<i>Empidonax traillii extimis</i>	Dense multistory riparian habitats; cottonwood-willow or tamarisk	E			no	moderate
Northern Harrier	<i>Circus cyaneus</i>	Prairies, meadows, grasslands, and marshes		P		no	moderate
American Peregrine Falcon	<i>Falco peregrinus anatum</i>	Open grassland areas for foraging with adjacent cliffs for nesting	E	E	NESL-3	yes	
Burrowing Owl	<i>Athene cunicularia</i>	Prairie, plains, and savanna		P		no	high
Barn Owl	<i>Tyto alba</i>	Variety of habitat types		P		yes	

**TABLE D-2c
SPECIAL STATUS SPECIES - NEVADA**

**Special Status Species Likely to Occur in the Habitats Traversed by
the Alternative Routes for the Navajo Transmission Project**
(Note: This includes species identified as occurring or potentially occurring along all alternative routes
inventoried in the data supporting this DEIS.)

Species		Habitat Type	Status			Occurrence	
Common Name	Scientific Name		Fed	State	Other	Known	Potential
Mountain Plover	<i>Charadrius montanus</i>	Dry upland prairies and plains, semidesert, plowed fields, and sandy deserts	C1			no	low
Black Tern	<i>Chlidonas niger</i>	Lake shores and marshes	C2			no	high
Loggerhead Shrike	<i>Lanius ludovicianus</i>	Savanna, desert scrub, and less often, open woodland	C2			yes	
REPTILES AND AMPHIBIANS							
Desert Tortoise (Mojave population)	<i>Gopherus agassizii</i>	Mohave desertscrub	T	P		yes	
Chuckwalla	<i>Sauromalus obesus</i>	Mohave desertscrub	C2		NESL-4	yes	
Banded Gila Monster	<i>Heloderma suspectum circutum</i>	Mohave desertscrub	C2	P	BLMS	yes	
FISHES							
Roundtail Chub	<i>Gila robusta</i>	Aquatic; Colorado River	C2	P,R		yes	
Bonytail Chub	<i>Gila elegans</i>	Lake Mohave	E	P		no	moderate
Humpback Chub	<i>Gila cypha</i>	Aquatic; Colorado River (designated critical habitat); Little Colorado River	E			yes	
Razorback Sucker	<i>Xyrauchen texanus</i>	Lake Mohave	E	P		yes	

**TABLE D-2c
SPECIAL STATUS SPECIES - NEVADA**

**Special Status Species Likely to Occur in the Habitats Traversed by
the Alternative Routes for the Navajo Transmission Project**
(Note: This includes species identified as occurring or potentially occurring along all alternative routes
inventoried in the data supporting this DEIS.)

Species		Habitat Type	Status			Occurrence	
Common Name	Scientific Name		Fed	State	Other	Known	Potential
Flannelmouth Sucker	<i>Catostomus luttipinnis</i>	Aquatic; Colorado River	C2			yes	
Colorado Squawfish	<i>Ptychocheilus lucius</i>	Aquatic, Colorado River (designated critical habitat)	E	E		yes	
PLANTS							
White Bear Desert Poppy	<i>Arctomecon merriami</i>	Rocky slopes, barren limestone outcroppings; creosotebush and blackbrush series	C2		NNNPS-W	no	moderate
Curve-podded Mojave Milkvetch	<i>Astragalus mohavensis</i> var. <i>hemigyus</i>	Limestone ledges and gravelly hillsides; associated with creosotebush and junipers, elevations range from 4,065 to 6,070 feet	C2	CE#	NNNPS-E	no	low
Yellow Twotone Beardtongue	<i>Penstemon bicolor</i> ssp. <i>bicolor</i>	Gravelly soils, washes; Mohave desertscrub	C2		NNNPS-W	no	high
Rosy Twotone Beardtongue	<i>Penstemon bicolor</i> ssp. <i>roseus</i>	Gravelly soils, washes; Mohave desertscrub	C2		NNNPS-D	no	high
* Status definitions are found in text.			Sources: FWS 1993a,b,c; NFWD, NNHP 1993				

**TABLE D-3
UNIQUE HABITATS**

Feature	Associated Species*	Other Attributes	Links
New Mexico			
The Hogback (BLM-within The Hogback ACEC; Navajo Nation)	<u>Endangered:</u> Mancos milkvetch <u>Threatened:</u> Mesa Verde cactus <u>Other:</u> pronghorn, mule deer, mountain lion, Cottam's milkvetch, Monument Valley milkvetch, handsome cat's-eye, splendid phacelia, Eastwood phacelia	The Hogback is a unique geologic outcropping, which occurs where several biogeographical provinces meet.	100, 240, 640
San Juan River (BLM, Navajo Nation)	<u>Endangered:</u> Aquatic habitat is designated critical habitat for Colorado squawfish and razorback sucker. Riparian habitat supports wintering bald eagles and (potentially) southwestern willow flycatcher. <u>Candidate C2:</u> roundtail chub, flannelmouth sucker, white-faced ibis <u>Other:</u> Zuni bluehead sucker, mottled sculpin	peregrine falcon may inhabit adjacent cliffs; three transmission lines cross the river	240, 460
Beautiful Mountain (part of the Chuska Mountains) (Navajo Nation)	<u>Threatened:</u> Mexican spotted owl (designated critical habitat) <u>Candidate C1:</u> Goodding onion, Arizona leatherflower <u>Candidate C2:</u> Northern goshawk <u>Other:</u> Chuska Mountains milkvetch, Chuska Mountains tassel-eared squirrel	Ponderosa pine and mixed conifer forests are present in the project area only here; big game (mule deer, elk, bear, and wild turkey); most biologically diverse area in project area	700
Arizona			
Chuska Mountains (Navajo Nation)	<u>Threatened:</u> Mexican spotted owl (designated critical habitat) <u>Candidate C1:</u> Goodding onion, Arizona leatherflower <u>Other:</u> Chuska Mountains milkvetch, Chuska Mountains tassel-eared squirrel	Ponderosa pine and mixed conifer forests occur in the project area only here; big game (mule deer, elk, bear, and wild turkey); most biologically diverse area in project area	700
Aubrey Valley (BLM, state, private, Navajo Nation)	<u>Endangered:</u> management area for reintroduction of black-footed ferret population designated as "nonessential, experimental"	extensive habitat for pronghorn	1740, 1741, 1742, 1790
Hualapai Valley (BLM, Hualapai Tribe, private)	<u>Candidate C2:</u> ferruginous hawk, loggerhead shrike <u>Other:</u> Swainson's hawk	nesting areas for raptors exist	2020, 2040, 2060

**TABLE D-3
UNIQUE HABITATS**

Feature	Associated Species*	Other Attributes	Links
Black Mountains (BLM, NPS)	<u>Candidate C2</u> : desert tortoise (Sonoran population), chuckwallas, banded Gila monster	habitat and lambing grounds for bighorn sheep	2040, 2060
Arizona and Nevada			
Colorado River (NPS Lake Mead NRA, state)	<u>Endangered</u> : Aquatic habitat is designated critical habitat for bonytail chub and razorback sucker. Riparian habitat supports wintering bald eagles and (potentially) southwestern willow flycatcher. Peregrine falcon may inhabit adjacent cliffs <u>Candidate C2</u> : flannelmouth sucker, southwestern river otter	Game species that occur in Lake Mohave include largemouth bass, striped bass, channel catfish, rainbow trout, black crappie, bluegill, and green sunfish. Nongame species include carp and threadfin shad.	2040, 2060
Nevada			
Eldorado Mountains (BLM, state, private)	<u>Threatened</u> : desert tortoise (Mojave population) designated critical habitat <u>Candidate C2</u> : chuckwalla, rosy and yellow twotone beardtongues, banded Gila monster	habitat and lambing grounds for bighorn sheep	2040, 2060
Eldorado Valley (BLM, state, private)	<u>Threatened</u> : desert tortoise (Mojave population) designated critical habitat <u>Candidate C2</u> : chuckwalla, rosy and yellow twotone beardtongues, banded Gila monster	The proposed Paiute- Eldorado Desert Wildlife Management Area encompasses a portion of the western edge of the project area.	2040, 2080, 2200, 2180
Colorado River (NPS Lake Mead NRA, state)	<u>Endangered</u> : Aquatic habitat is designated critical habitat for bonytail chub and razorback sucker; Riparian habitat supports wintering bald eagles and (potentially) southwestern willow flycatcher. Peregrine falcon may inhabit adjacent cliffs <u>Candidate C2</u> : roundtail chub and flannelmouth sucker; black tern, western least bittern, white-faced ibis	Game species that occur in Lake Mohave include largemouth bass, striped bass, channel catfish, rainbow trout, black crappie, bluegill, and green sunfish. Nongame species include carp and threadfin shad.	2040, 2060
*Includes species for which habitat occurs along an alternative route, but for which specific locations have not been identified.			

TABLE D-4 BIOLOGICAL RESOURCES SENSITIVITY LEVELS		
Low	Moderate	High
Vegetation Types		
Great Basin/Plains Grassland Mohave Desertscrub Great Basin Desertscrub	Piñon-Juniper Woodland Ponderosa Pine Forest	Sand Dune Scrub Mixed Conifer Forest Riparian Areas Wetlands
Special Status Plants		
Monument Valley Milkvetch Gladiator Milkvetch Disturbed Rabbitbrush Handsome Cat's-eye Rosy Twotone Beardtongue Yellow Twotone Beardtongue Eastwood Phacelia Cottam's Milkvetch Mancos Saltbush	Roaring Springs Prickly Poppy Chuska Mountain Milkvetch Naturita Milkvetch Cameron Water-parsley Fickeisen Plains Cactus Sunset Crater Beardtongue* Cinder Phacelia* Welsh Phacelia Whiting Indigobush Tusayan Flame Flower Freckled Milkvetch Arizona Leatherflower	Goodding Onion Mancos Milkvetch Navajo Sedge Welsh's Milkweed Parish Alkali Grass Mesa Verde Cactus
Special Status Wildlife		
Northern Harrier Flammulated Owl* Ferruginous Hawk Long-billed Curlew* Lowland Leopard Frog Chorus Frog Chuckwalla Roundtail Chub Flannelmouth Sucker Speckled Dace	Osprey Swainson's Hawk Barn Owl Pygmy Owl* Chuska Tassel-eared Squirrel Southwestern River Otter Northern Goshawk Bald Eagle Southwestern Willow Flycatcher Arizona Toad Northern Leopard Frog Desert Tortoise (Sonoran Population) Blue-black Silverspot Butterfly* Humpback Chub Zuni Bluehead Sucker*	Coconino Arizona Pocket Mouse Hualapai Mexican Vole Black-footed Ferret Golden Eagle Peregrine Falcon Mexican Spotted Owl Desert Tortoise (Mojave Population) Gila Monster Bonytail Chub Little Colorado River Spinedace Colorado Squawfish Razorback Sucker
Big Game		
Black Bear Mule Deer Elk Mountain Lion Wild Turkey	Pronghorn Antelope	Desert Bighorn
This table includes all species for the project area. Several species listed above (marked with an *) occur only along links that were eliminated from further consideration in the DEIS.		

**TABLE D-5
SUMMARY OF POTENTIAL IMPACTS ON VEGETATION**

Alternative Route	Impact	Vegetation Type	Miles of Impacts			Total
			NM	AZ	NV	
EASTERN AREA ALTERNATIVES						
GC1	L	Great Basin Desertscrub	26.1	151.8	—	177.9
GC1	L	Great Basin/Plains Grassland	8.0	40.2	—	48.2
GC1	L	Piñon-Juniper Woodland	0.4	30.3	—	30.7
GC1	M	Piñon-Juniper Woodland	—	0.3	—	0.3
GC1	L	Riparian/Salt Cedar/Greasewood	0.3	3.1	—	3.4
GC1	L	Wetlands/Aquatic	0.1	—	—	0.1
K1	L	Great Basin Desertscrub	26.1	138.6	—	164.7
K1	L	Great Basin/Plains Grassland	8.0	35.8	—	43.8
K1	L	Piñon-Juniper Woodland	0.4	32.1	—	32.5
K1	M	Piñon-Juniper Woodland	—	0.3	—	0.3
K1	L	Riparian/Salt Cedar/Greasewood	0.3	3.0	—	3.3
K1	L	Wetlands/Aquatic	0.1	—	—	0.1
C1	L	Bare Rock	0.9	—	—	0.9
C1	L	Great Basin Desertscrub	23.9	26.8	—	50.7
C1	L	Great Basin/Plains Grassland	13.6	86.3	—	99.9
C1	L	Piñon-Juniper Woodland	1.3	25.2	—	26.5
C1	L	Ponderosa Pine Woodland		6.8	—	6.8
C1	L	Riparian/Salt Cedar/Greasewood	0.4	1.4	—	1.8
C1	L	Wetlands/Aquatic	0.1	—	—	0.1
C2	L	Great Basin Desertscrub	26.1	73.6	—	99.7
C2	L	Great Basin/Plains Grassland	8.0	83.2	—	91.2
C2	L	Piñon-Juniper Woodland	0.4	18.0	—	18.4
C2	L	Riparian/Salt Cedar/Greasewood	0.3	1.3	—	1.6
C2	L	Wetlands/Aquatic	0.1	—	—	0.1

**TABLE D-5
SUMMARY OF POTENTIAL IMPACTS ON VEGETATION**

Alternative Route	Impact	Vegetation Type	Miles of Impacts			Total
			NM	AZ	NV	
WESTERN AREA ALTERNATIVES						
Moenkopi to Marketplace						
N1W	L	Great Basin Desertscrub	—	5.1	—	5.1
N1W	L	Great Basin/Plains Grassland	—	86.2	—	86.2
N1W	L	Mohave Desertscrub	—	44.7	29.5	74.2
N1W	L	Piñon-Juniper Woodland	—	49.3	—	49.3
N1W	L	Riparian/Salt Cedar/Greasewood	—	0.6	0.4	1.0
N1W	L	Sand Dune Scrub/Bare Sand	—	0.2	—	0.2
N1W	L	Wetlands/Aquatic	—	0.9	0.1	1.0
N2	L	Bare Rock	—	1.7	—	1.7
N2	L	Great Basin Desertscrub	—	5.1	—	5.1
N2	L	Great Basin/Plains Grassland	—	95.7	—	95.7
N2	L	Mohave Desertscrub	—	58.7	29.5	88.2
N2	L	Piñon-Juniper Woodland	—	32.2	—	32.2
N2	L	Riparian/Salt Cedar/Greasewood	—	0.6	0.4	1.0
N2	L	Sand Dune Scrub/Bare Sand	—	0.2	—	0.2
N2	L	Wetlands/Aquatic	—	0.9	0.1	1.0
S2	L	Bare Rock	—	1.1	—	1.1
S2	L	Great Basin Desertscrub	—	4.2	—	4.2
S2	L	Great Basin/Plains Grassland	—	92.0	—	92.0
S2	L	Mohave Desertscrub	—	55.1	29.5	84.6
S2	L	Piñon-Juniper Woodland	—	58.9	—	58.9
S2	L	Riparian/Salt Cedar/Greasewood	—	1.8	0.4	2.2
S2	L	Sand Dune Scrub/Bare Sand	—	4.6	—	4.6
S2	L	Wetlands/Aquatic	—		0.1	0.1

**TABLE D-5
SUMMARY OF POTENTIAL IMPACTS ON VEGETATION**

Alternative Route	Impact	Vegetation Type	Miles of Impacts			Total
			NM	AZ	NV	
Moenkopi to Mead						
N3	L	Great Basin Desertscrub	—	5.1	—	5.1
N3	L	Great Basin/Plains Grassland	—	86.2	—	86.2
N3	L	Mohave Desertscrub	—	46.1	9.1	55.2
N3	L	Piñon-Juniper Woodland	—	49.3	—	49.3
N3	L	Riparian/Salt Cedar/Greasewood	—	0.5	1.8	2.3
N3	L	Sand Dune Scrub/Bare Sand	—	0.2	—	0.2
N3	L	Wetlands/Aquatic	—	1.0	—	1.0
N4	L	Bare Rock	—	1.7	—	1.7
N4	L	Great Basin Desertscrub	—	5.1	—	5.1
N4	L	Great Basin/Plains Grassland	—	95.7	—	95.7
N4	L	Mohave Desertscrub	—	60.1	9.1	69.2
N4	L	Piñon-Juniper Woodland	—	32.2	—	32.2
N4	L	Riparian/Salt Cedar/Greasewood	—	0.5	1.8	2.3
N4	L	Sand Dune Scrub/Bare Sand	—	0.2	—	0.2
N4	L	Wetlands/Aquatic	—	1.0	—	1.0
S4	L	Bare Rock	—	1.1	—	1.1
S4	L	Great Basin Desertscrub	—	4.2	—	4.2
S4	L	Great Basin/Plains Grassland	—	92.0	—	92.0
S4	L	Mohave Desertscrub	—	56.5	9.1	65.6
S4	L	Piñon-Juniper Woodland	—	58.9	—	58.9
S4	L	Riparian/Salt Cedar/Greasewood	—	1.7	1.8	3.5
S4	L	Sand Dune Scrub/Bare Sand	—	4.6	—	4.6
S4	L	Wetlands/Aquatic	—	0.1	—	0.1

**TABLE D-6
SUMMARY OF POTENTIAL IMPACTS ON KNOWN HABITAT OF
SPECIAL STATUS PLANTS**

Alternative Route	Impact	Special Status Plants	Federal Status	Miles of Impacts			Total
				NM	AZ	NV	
EASTERN AREA ALTERNATIVES							
GC1	L	Mancos Milkvetch	E	2.7	—	—	2.7
GC1	L	Mesa Verde Cactus	T	1.7	—	—	1.7
GC1	L	Monument Valley Milkvetch	C2	1.6	—	—	1.6
GC1	L	Eastwood Phacelia	O	1.0	—	—	1.0
K1	L	Mancos Milkvetch	E	2.7	—	—	2.7
K1	L	Mesa Verde Cactus	T	1.7	—	—	1.7
K1	L	Monument Valley Milkvetch	C2	1.6	—	—	1.6
K1	L	Eastwood Phacelia	O	1.0	—	—	1.0
C1	M	Mancos Milkvetch	E	0.1	—	—	0.1
C1	L	Mancos Milkvetch	E	0.8	—	—	0.8
C1	L	Mesa Verde Cactus	T	1.2	—	—	1.2
C1	L	Monument Valley Milkvetch	C2	0.2	—	—	0.2
C1	L	Eastwood Phacelia	O	1.4	—	—	1.4
C2	L	Mancos Milkvetch	E	2.7	—	—	2.7
C2	L	Mesa Verde Cactus	T	1.7	—	—	1.7
C2	L	Monument Valley Milkvetch	O	1.6	—	—	1.6
C2	L	Eastwood Phacelia	O	1.0	—	—	1.0
WESTERN AREA ALTERNATIVES							
Moenkopi to Marketplace							
N1W	L	Tusayan Flame Flower	C2	—	0.8	—	0.8
N1W	L	Tusayan Rabbitbrush	C2	—	1.9	—	1.9
N2	L	Tusayan Flame Flower	C2	—	0.8	—	0.8
N2	L	Tusayan Rabbitbrush	C2	—	1.9	—	1.9

**TABLE D-6
SUMMARY OF POTENTIAL IMPACTS ON KNOWN HABITAT OF
SPECIAL STATUS PLANTS**

Alternative Route	Impact	Special Status Plants	Federal Status	Miles of Impacts			Total
				NM	AZ	NV	
S2	L	Tusayan Rabbitbrush	C2	—	6.8	—	6.8
Moenkopi to Mead							
N3	L	Tusayan Flame Flower	C2	—	0.8	—	0.8
N3	L	Tusayan Rabbitbrush	C2	—	1.9	—	1.9
N4	L	Tusayan Flame Flower	C2	—	0.8	—	0.8
N4	L	Tusayan Rabbitbrush	C2	—	1.9	—	1.9
S4	L	Tusayan Rabbitbrush	C2	—	6.8	—	6.8

TABLE D-7
SUMMARY OF POTENTIAL IMPACTS ON POTENTIAL HABITAT OF
SPECIAL STATUS PLANTS

Alternative Route	Impact	Special Status Plants	Federal Status	Miles of Impacts			Total
				NM	AZ	NV	
EASTERN AREA ALTERNATIVES							
GC1	L	Meas Verde Cactus	T	23.4	—	—	23.4
GC1	M	Navajo Sedge	T	—	0.5	—	0.5
GC1	L	Navajo Sedge	T	—	2.0	—	2.0
GC1	L	Fickeisen Plains Cactus	C1	—	2.2	—	2.2
GC1	L	Cameron Water-parsley	C2	—	2.6	—	2.6
GC1	L	Monument Valley Milkvetch	C2	0.5	—	—	0.5
GC1	L	Nipple Beach Phacelia	C2	—	0.2	—	0.2
GC1	L	Roaring Springs Prickly Poppy	C2	—	1.0	—	1.0
GC1	L	Tusayan Flame Flower	C2	—	6.9	—	6.9
GC1	L	Welsh Phacelia	C2	—	2.8	—	2.8
GC1	L	Cottam’s Milkvetch	O	0.5	—	—	0.5
GC1	L	Eastwood Phacelia	O	24.1	—	—	24.1
GC1	L	Mancos Saltbrush	O	1.4	—	—	1.4
K1	L	Mesa Verde Cactus	T	23.4	—	—	23.4
K1	M	Navajo Sedge	T	—	0.5	—	0.5
K1	L	Navajo Sedge	T	—	2.0	—	2.0
K1	L	Fickeisen Plains Cactus	C1	—	2.2	—	2.2
K1	L	Cameron Water-parsley	C2	—	2.6	—	2.6
K1	L	Monument Valley Milkvetch	C2	0.5	—	—	0.5
K1	L	Roaring Springs Prickly Poppy	C2	—	1.0	—	1.0
K1	L	Tusayan Flame Flower	C2	—	6.9	—	6.9
K1	L	Welsh Phacelia	C2	—	2.8	—	2.8
K1	L	Cottam’s Milkvetch	O	0.5	—	—	0.5

TABLE D-7
SUMMARY OF POTENTIAL IMPACTS ON POTENTIAL HABITAT OF
SPECIAL STATUS PLANTS

Alternative Route	Impact	Special Status Plants	Federal Status	Miles of Impacts			Total
				NM	AZ	NV	
K1	L	Eastwood Phacelia	O	24.1	—	—	24.1
K1	L	Mancos Saltbrush	O	1.4	—	—	1.4
C1	M	Mancos Milkvetch	E	0.3	—	—	0.3
C1	M	Mesa Verde Cactus	T	8.1	—	—	8.1
C1	L	Mesa Verde Cactus	T	8.7	—	—	8.7
C1	L	Gladiator Milkvetch	C2	—	0.1	—	0.1
C1	L	Monument Valley Milkvetch	C2	0.1	—	—	0.1
C1	L	Tusayan Flame Flower	C2	—	5.0	—	5.0
C1	L	Tusayan Rabbitbrush	C2	—	12.3	—	12.3
C1	L	Chuska Mountain Milkvetch	O	—	4.6	—	4.6
C1	L	Cottam's Milkvetch	O	0.2	—	—	0.2
C1	L	Eastwood Phacelia	O	17.7	—	—	17.7
C1	L	Mancos Saltbush	O	3.9	—	—	3.9
C1	L	Naturita Milkvetch	O	—	15.0	—	15.0
C2	M	Navajo Sedge	T	—	3.5	—	3.5
C2	L	Mesa Verde Cactus	T	23.4	—	—	23.4
C2	L	Monument Valley Milkvetch	C2	0.5	—	—	0.5
C2	L	Tusayan Flame Flower	C2	—	5.0	—	5.0
C2	L	Tusayan Rabbitbrush	C2	—	15.7	—	15.7
C1	L	Cottam's Milkvetch	O	0.5	—	—	0.5
C1	L	Eastwood Phacelia	O	24.1	—	—	24.1
C1	L	Mancos Saltbush	O	1.4	—	—	1.4
C1	L	Naturita Milkvetch	O	—	15.0	—	15.0

**TABLE D-7
SUMMARY OF POTENTIAL IMPACTS ON POTENTIAL HABITAT OF
SPECIAL STATUS PLANTS**

Alternative Route	Impact	Special Status Plants	Federal Status	Miles of Impacts			Total
				NM	AZ	NV	
WESTERN AREA ALTERNATIVES							
Moenkopi to Marketplace							
N1W	L	Fickeisen Plains Cactus	C1	—	0.8	—	0.8
N1W	L	Cameron Water-parsley	C2	—	4.0	—	4.0
N1W	L	Rosy Twotone Beardtongue	C2	—	—	18.1	18.1
N1W	M	Tusayan Flame Flower	C2	—	1.6	—	1.6
N1W	L	Tusayan Flame Flower	C2	—	14.9	—	14.9
N1W	L	Tusayan Rabbitbrush	C2	—	10.0	—	10.0
N1W	L	Welsh Phacelia	C2	—	3.9	—	3.9
N1W	L	Yellow Twotone Beardtongue	C2	—	—	17.4	17.4
N2	L	Fickeisen Plains Cactus	C1	—	0.8	—	0.8
N2	L	Cameron Water-parsley	C2	—	4.0	—	4.0
N2	L	Freckled Milkvetch	C2	—	0.8	—	0.8
N2	L	Roaring Springs Prickly Poppy	C2	—	6.8	—	6.8
N2	L	Rosy Twotone Beardtongue	C2	—	—	18.1	18.1
N2	M	Tusayan Flame Flower	C2	—	1.6	—	1.6
N2	L	Tusayan Flame Flower	C2	—	16.0	—	16.0
N2	L	Tusayan Rabbitbrush	C2	—	10.8	—	10.8
N2	L	Welsh Phacelia	C2	—	3.9	—	3.9
N2	L	Yellow Twotone Beardtongue	C2	—	—	17.4	17.4
S2	M	Fickeisen Plains Cactus	C1	—	0.2	—	0.2
S2	L	Fickeisen Plains Cactus	C1	—	1.6	—	1.6
S2	L	Cameron Water-parsley	C2	—	4.2	—	4.2
S2	L	Freckled Milkvetch	C2	—	0.1	—	0.1

**TABLE D-7
SUMMARY OF POTENTIAL IMPACTS ON POTENTIAL HABITAT OF
SPECIAL STATUS PLANTS**

Alternative Route	Impact	Special Status Plants	Federal Status	Miles of Impacts			Total
				NM	AZ	NV	
S2	L	Roaring Springs Prickly Poppy	C2	—	7.7	—	7.7
S2	L	Rosy Twotone Beardtongue	C2	—	—	18.1	18.1
S2	L	Tusayan Flame Flower	C2	—	25.6	—	25.6
S2	L	Tusayan Rabbitbrush	C2	—	1.0	—	1.0
S2	L	Welsh Phacelia	C2	—	2.2	—	2.2
S2	L	Yellow Twotone Beardtongue	C2	—	—	17.4	17.4
Moenkopi to Mead							
N3	L	Fickeisen Plains Cactus	C1	—	0.8	—	0.8
N3	L	Cameron Water-parsley	C2	—	4.0	—	4.0
N3	L	Rosy Twotone Beardtongue	C2	—	—	3.5	3.5
N3	M	Tusayan Flame Flower	C2	—	1.6	—	1.6
N3	L	Tusayan Flame Flower	C2	—	14.9	—	14.9
N3	L	Tusayan Rabbitbrush	C2	—	10.0	—	10.0
N3	L	Welsh Phacelia	C2	—	3.9	—	3.9
N3	L	Yellow Twotone Beardtongue	C2	—	—	3.1	3.1
N4	L	Fickeisen Plains Cactus	C2	—	0.8	—	0.8
N4	L	Cameron Water-parsley	C2	—	4.0	—	4.0
N4	L	Freckled Milkvetch	C1	—	0.8	—	0.8
N4	L	Roaring Springs Prickly Poppy	C2	—	6.8	—	6.8
N4	L	Rosy Twotone Beardtongue	C2	—	—	3.5	3.5
N4	M	Tusayan Flame Flower	C2	—	1.6	—	1.6
N4	L	Tusayan Flame Flower	C2	—	16.0	—	16.0
N4	L	Tusayan Rabbitbrush	C2	—	10.8	—	10.8
N4	L	Welsh Phacelia	C2	—	3.9	—	3.9

TABLE D-7
SUMMARY OF POTENTIAL IMPACTS ON POTENTIAL HABITAT OF
SPECIAL STATUS PLANTS

Alternative Route	Impact	Special Status Plants	Federal Status	Miles of Impacts			Total
				NM	AZ	NV	
N4	L	Yellow Twotone Beardtongue	C2	—	—	3.1	3.1
S4	M	Fickeisen Plains Cactus	C1	—	0.2	—	0.2
S4	L	Fickeisen Plains Cactus	C1	—	1.6	—	1.6
S4	L	Cameron Water-parsley	C2	—	4.2	—	4.2
S4	L	Freckled Milkvetch	C2	—	0.1	—	0.1
S4	L	Roaring Springs Prickly Poppy	C2	—	7.7	—	7.7
S4	L	Rosy Twotone Beardtongue	C2	—	—	3.5	3.5
S4	L	Tusayan Flame Flower	C2	—	25.6	—	25.6
S4	L	Tusayan Rabbitbrush	C2	—	1.0	—	1.0
S4	L	Welsh Phacelia	C2	—	2.2	—	2.2
S4	L	Yellow Twotone Beardtongue	C2	—	—	3.1	3.1

**TABLE D-8
SUMMARY OF POTENTIAL IMPACTS ON HABITAT OF
SPECIAL STATUS WILDLIFE**

Alternative Route	Impact	Special Status Wildlife	Federal Status	Miles of Impacts			Total
				NM	AZ	NV	
EASTERN AREA ALTERNATIVES							
GC1	L	Colorado Squawfish (CH)	E	0.1	—	—	0.1
GC1	L	Raptor Habitat	E	0.3	6.0	—	6.3
GC1	L	Razorback Sucker (CH)	E	0.1	—	—	0.1
GC1	L	Coconino Arizona Pocket Mouse	C2	—	7.1	—	7.1
GC1	L	Flannelmouth Sucker	C2	0.1	—	—	0.1
GC1	L	Roundtail Chub	C2	0.1	—	—	0.1
GC1	L	Golden Eagle	O	—	2.4	—	2.4
GC1	L	Mottled Sculpin	O	0.1	—	—	0.1
GC1	L	Rough-legged Hawk	O	0.3	—	—	0.3
K1	L	Colorado Squawfish (CH)	E	0.1	—	—	0.1
K1	L	Raptor Habitat	E	0.3	6.0	—	6.3
K1	L	Razorback Sucker (CH)	E	0.1	—	—	0.1
K1	L	Coconino Arizona Pocket Mouse	C2	—	7.2	—	7.2
K1	L	Flannelmouth Sucker	C2	0.1	—	—	0.1
K1	L	Roundtail Chub	C2	0.1	—	—	0.1
K1	L	Golden Eagle	O	—	2.4	—	2.4
K1	L	Mottled Sculpin	O	0.1	—	—	0.1
K1	L	Rough-legged Hawk	O	0.3	—	—	0.3
C1	L	Colorado Squawfish (CH)	E	0.1	—	—	0.1
C1	L	Humpback Chub	E	—	0.2	—	0.2
C1	L	Raptor Habitat	E	1.0	—	—	1.0
C1	L	Razorback Sucker	E	0.1	0.2	—	0.3
C1	L	Mexican Spotted Owl (CH)	T	—	5.9	—	5.9
C1	L	Coconino Arizona Pocket Mouse	C2	—	4.2	—	4.2
C1	L	Flannelmouth Sucker	C2	0.1	0.2	—	0.3

**TABLE D-8
SUMMARY OF POTENTIAL IMPACTS ON HABITAT OF
SPECIAL STATUS WILDLIFE**

Alternative Route	Impact	Special Status Wildlife	Federal Status	Miles of Impacts			Total
				NM	AZ	NV	
C1	L	Roundtail Chub	C2	0.1	—	—	0.1
C1	L	Chuska Tassel-eared Squirrel	O	—	5.9	—	5.9
C1	L	Mottled Sculpin	O	0.1	—	—	0.1
C1	L	Zuni Bluehead Sucker	O	0.1	0.2	—	0.3
C2	L	Colorado Squawfish	E	0.1	—	—	0.1
C2	L	Humpback Chub	E	—	0.2	—	0.2
C2	L	Raptor Habitat	E	0.3	—	—	0.3
C2	L	Razorback Sucker	E	0.1	0.2	—	0.3
C2	L	Coconino Arizona Pocket Mouse	C2	—	4.2	—	4.2
C2	L	Flannelmouth Sucker	C2	0.1	0.2	—	0.3
C2	L	Roundtail Chub	C2	0.1	—	—	0.1
C2	L	Golden Eagle	O	—	0.8	—	0.8
C2	L	Mottled Sculpin	O	0.1	—	—	0.1
C2	L	Rough-legged Hawk	O	0.3	—	—	0.3
C2	L	Zuni Bluehead Sucker	O	—	0.2	—	0.2
WESTERN AREA ALTERNATIVES							
Moenkopi to Marketplace							
N1W	L	Bonytail Chub (CH)	E	—	—	0.1	0.1
N1W	L	Raptor habitat	E	—	1.9	—	1.9
N1W	L	Razorback Sucker (CH)	E	—	—	0.1	0.1
N1W	L	Black-footed Ferret	E*	—	8.4	—	8.4
N1W	L	Desert Tortoise (M) (CH)	T	—	—	21.1	21.1
N1W	L	Arizona Toad	C2	—	2.5	—	2.5
N1W	L	Chuckwalla	C2	—	1.2	—	1.2
N1W	L	Coconino Arizona Pocket Mouse	C2	—	6.0	—	6.0
N1W	M	Desert Tortoise (S)	C2	—	0.1	—	0.1

**TABLE D-8
SUMMARY OF POTENTIAL IMPACTS ON HABITAT OF
SPECIAL STATUS WILDLIFE**

Alternative Route	Impact	Special Status Wildlife	Federal Status	Miles of Impacts			Total
				NM	AZ	NV	
N1W	L	Desert Tortoise (S)	C2	—	0.9	—	0.9
N1W	L	Southwestern River Otter	C2	—	0.1	—	0.1
N1W	L	Cooper's Hawk	O	—	3.0	—	3.0
N1W	L	Gila Monster	O	—	1.2	—	1.2
N2	L	Bonytail Chub (CH)	E	—	—	0.1	0.1
N2	L	Raptor Habitat	E	—	2.0	—	2.0
N2	L	Razorback Sucker (CH)	E	—	—	0.1	0.1
N2	L	Black-footed Ferret	E*	—	15.5	—	15.5
N2	L	Desert Tortoise (M) (CH)	T	—	—	21.1	21.1
N2	L	Chuckwalla	C2	—	0.7	—	0.7
N2	L	Coconino Arizona Pocket Mouse	C2	—	6.0	—	6.0
N2	M	Desert Tortoise (S)	C2	—	0.1	—	0.1
N2	L	Desert Tortoise (S)	C2	—	0.9	—	0.9
N2	L	Ferruginous Hawk	C2	—	3.0	—	3.0
N2	L	Southwestern River Otter	C2	—	0.1	—	0.1
S2	L	Bonytail Chub (CH)	E	—	—	0.1	0.1
S2	L	Raptor Habitat	E	—	1.9	—	1.9
S2	L	Razorback Sucker (CH)	E	—	—	0.1	0.1
S2	L	Desert Tortoise (M) (CH)	T	—	—	21.1	21.1
S2	L	Chuckwalla	C2	—	0.7	—	0.7
S2	L	Coconino Arizona Pocket Mouse	C2	—	4.2	—	4.2
S2	M	Desert Tortoise (S)	C2	—	0.1	—	0.1
S2	L	Desert Tortoise (S)	C2	—	0.9	—	0.9
S2	L	Ferruginous Hawk	C2	—	3.0	—	3.0
S2	L	Southwestern River Otter	C2	—	0.1	—	0.1

**TABLE D-8
SUMMARY OF POTENTIAL IMPACTS ON HABITAT OF
SPECIAL STATUS WILDLIFE**

Alternative Route	Impact	Special Status Wildlife	Federal Status	Miles of Impacts			Total
				NM	AZ	NV	
Moenkopi to Mead							
N3	L	Bonytail Chub (CH)	E	—	0.1	—	0.1
N3	L	Raptor Habitat	E	—	2.4	—	2.4
N3	L	Razorback Sucker (CH)	E	—	0.1	—	0.1
N3	L	Black-footed Ferret	E*	—	8.4	—	8.4
N3	L	Desert Tortoise (M) (CH)	T	—	—	5.7	5.7
N3	L	Arizona Toad	C2	—	2.5	—	2.5
N3	L	Chuckwalla	C2	—	0.8	—	0.8
N3	L	Coconino Arizona Pocket Mouse	C2	—	6.0	—	6.0
N3	L	Desert Tortoise (S)	C2	—	6.4	—	6.4
N3	L	Southwestern River Otter	C2	—	0.1	—	0.1
N3	L	Cooper’s Hawk	O	—	3.0	—	3.0
N3	L	Gila Monster	O	—	0.8	—	0.8
N3	L	Osprey	O	—	0.5	—	0.5
N4	L	Bonytail Chub (CH)	E	—	0.1	—	0.1
N4	L	Raptor Habitat	E	—	2.5	—	2.5
N4	L	Razorback Sucker (CH)	E	—	0.1	—	0.1
N4	L	Black-footed Ferret	E*	—	15.5	—	15.5
N4	L	Desert Tortoise (M) (CH)	T	—	—	5.7	5.7
N4	L	Chuckwalla	C2	—	0.3	—	0.3
N4	L	Coconino Arizona Pocket Mouse	C2	—	6.0	—	6.0
N4	L	Desert Tortoise (S)	C2	—	6.4	—	6.4
N4	L	Ferruginous Hawk	C2	—	3.0	—	3.0
N4	L	Southwestern River Otter	C2	—	0.1	—	0.1
N4	L	Gila Monster	O	—	0.3	—	0.3
N4	L	Osprey	O	—	0.5	—	0.5

TABLE D-8
SUMMARY OF POTENTIAL IMPACTS ON HABITAT OF
SPECIAL STATUS WILDLIFE

Alternative Route	Impact	Special Status Wildlife	Federal Status	Miles of Impacts			Total
				NM	AZ	NV	
N4	L	Swainson's Hawk	O	—	8.6	—	8.6
S4	L	Bonytail Chub (CH)	E	—	0.1	—	0.1
S4	L	Raptor Habitat	E	—	2.4	—	2.4
S4	L	Razorback Sucker (CH)	E	—	0.1	—	0.1
S4	L	Desert Tortoise (M) (CH)	T	—	—	5.7	5.7
S4	L	Chuckwalla	C2	—	0.3	—	0.3
S4	L	Coconino Arizona Pocket Mouse	C2	—	4.2	—	4.2
S4	L	Desert Tortoise (S)	C2	—	6.4	—	6.4
S4	L	Ferruginous Hawk	C2	—	3.0	—	3.0
S4	L	Southwestern River Otter	C2	—	0.1	—	0.1
S4	L	Gila Monster	O	—	0.3	—	0.3
S4	L	Osprey	O	—	0.5	—	0.5
S4	L	Swainson's Hawk	O	—	12.8	—	12.8
CH = Critical habitat M - Mojave population S = Sonoran population							

**TABLE D-9
SUMMARY OF POTENTIAL IMPACTS ON BIG GAME***

Alternative Route	Impact	Special Status Wildlife	Miles of Impacts			Total
			NM	AZ	NV	
EASTERN AREA ALTERNATIVES						
GC1	L	American Pronghorn Antelope	3.4	26.4	—	29.8
GC1	L	American Pronghorn Antelope, Mule Deer	—	9.0	—	9.0
GC1	L	American Pronghorn Antelope, Mule Deer (w, m)	0.4	—	—	0.4
GC1	L	Mule Deer	—	14.9	—	14.9
GC1	L	Mule Deer (w, m)	8.5	—	—	8.5
K1	L	American Pronghorn Antelope	3.4	26.4	—	29.8
K1	L	American Pronghorn Antelope, Mule Deer	—	9.0	—	9.0
K1	L	American Pronghorn Antelope, Mule Deer (w, m)	0.4	—	—	0.4
K1	L	Mule Deer	—	14.9	—	14.9
K1	L	Mule Deer (w, m)	8.5	—	—	8.5
C1	L	American Pronghorn Antelope	1.9	51.3	—	53.2
C1	L	American Pronghorn Antelope, Mule Deer	0.1	9.7	—	9.8
C1	L	American Pronghorn Antelope, Mule Deer (w), Merriam's Turkey	—	10.1	—	10.1
C1	L	American Pronghorn Antelope, Mule Deer, Merriam's Turkey	1.5	7.9	—	9.4
C1	L	American Pronghorn Antelope, Mule Deer, Merriam's Turkey (s,w)	0.5	—	—	0.5
C1	L	Black Bear, Mule Deer (s)	—	1.0	—	1.0
C1	L	Black Bear, Mule Deer (s), Merriam's Turkey	—	2.1	—	2.1
C1	L	Black Bear, Mule Deer (s), Merriam's Turkey (s,w)	—	2.1	—	2.1
C1	L	Merriam's Turkey, Mule Deer, Mountain Lion	—	1.2	—	1.2
C1	L	Mountain Lion, Mule Deer	2.8	—	—	2.8
C1	L	Mule Deer	1.1	—	—	1.1

**TABLE D-9
SUMMARY OF POTENTIAL IMPACTS ON BIG GAME***

Alternative Route	Impact	Special Status Wildlife	Miles of Impacts			Total
			NM	AZ	NV	
C1	L	Mule Deer (c,w), Merriam's Turkey (s,w), Mountain Lion	—	4.9	—	4.9
C1	L	Mule Deer, Merriam's Turkey (s,w), Mountain Lion	4.6	1.1	—	5.7
C2	L	American Pronghorn Antelope	3.4	65.5	—	68.9
C2	L	American Pronghorn Antelope, Mule Deer	—	9.7	—	9.7
C2	L	American Pronghorn Antelope, Mule Deer (w,m)	0.4	—	—	0.4
C2	L	Mule Deer	8.5	—	—	8.5
WESTERN AREA ALTERNATIVES						
Moenkopi to Marketplace						
N1W	L	American Pronghorn Antelope	—	25.5	—	25.5
N1W	L	American Pronghorn Antelope, Elk, Mule Deer	—	3.8	—	3.8
N1W	L	American Pronghorn Antelope, Mountain Lion, Mule Deer	—	6.0	—	6.0
N1W	L	American Pronghorn, Antelope, Mule Deer	—	2.5	—	2.5
N1W	L	Bighorn Sheep	—	—	3.3	3.3
N1W	L	Bighorn Sheep (s)	—	—	6.2	6.2
N1W	L	Bighorn Sheep, Mountain Lion, Mule Deer	—	10.4	—	10.4
N1W	L	Mountain Lion, Mule Deer	—	22.0	—	22.0
N1W	L	Mule Deer	—	60.1	—	60.1
N2	L	American Pronghorn Antelope	—	60.0	—	60.0
N2	L	American Pronghorn Antelope (yr,mc)	—	2.0	—	2.0
N2	L	American Pronghorn Antelope, Elk, Mule Deer	—	3.8	—	3.8
N2	L	American Pronghorn Antelope, Mule Deer	—	2.5	—	2.5
N2	L	Bighorn Sheep	—	—	3.3	3.3
N2	L	Bighorn Sheep (s)	—	—	6.2	6.2

**TABLE D-9
SUMMARY OF POTENTIAL IMPACTS ON BIG GAME***

Alternative Route	Impact	Special Status Wildlife	Miles of Impacts			Total
			NM	AZ	NV	
N2	L	Bighorn Sheep, Mountain Lion, Mule Deer	—	10.4	—	10.4
N2	L	Mule Deer	—	60.1	—	60.1
S2	L	American Pronghorn Antelope	—	49.5	—	49.5
S2	L	American Pronghorn Antelope, Mule Deer	—	28.1	—	28.1
S2	L	Bighorn Sheep	—	—	3.3	3.3
S2	L	Bighorn Sheep (s)	—	—	6.2	6.2
S2	L	Bighorn Sheep, Mountain Lion, Mule Deer	—	10.4	—	10.4
S2	L	Mule Deer	—	15.8	—	15.8
Moenkopi to Mead						
N3	L	American Pronghorn Antelope	—	31.8	—	31.8
N3	L	American Pronghorn Antelope, Elk, Mule Deer	—	3.8	—	3.8
N3	L	American Pronghorn Antelope, Mountain Lion, Mule Deer	—	6.0	—	6.0
N3	L	American Pronghorn Antelope, Mule Deer	—	2.5	—	2.5
N3	L	Bighorn Sheep	—	—	2.7	2.7
N3	L	Bighorn Sheep (s)	—	—	5.5	5.5
N3	L	Bighorn Sheep, Mountain Lion, Mule Deer	—	3.0	—	3.0
N3	L	Mountain Lion, Mule Deer	—	22.0	—	22.0
N3	L	Mountain Lion, Mule Deer, Bighorn Sheep (l)	—	3.0	—	3.0
N3	L	Mule Deer	—	60.1	—	60.1
N4	L	American Pronghorn Antelope	—	66.3	—	66.3
N4	L	American Pronghorn Antelope (yr, m)	—	2.0	—	2.0
N4	L	American Pronghorn Antelope, Elk, Mule Deer	—	3.8	—	3.8
N4	L	American Pronghorn Antelope, Mule Deer	—	2.5	—	2.5
N4	L	Bighorn Sheep	—	—	2.7	2.7
N4	L	Bighorn Sheep (s)	—	—	5.5	5.5

**TABLE D-9
SUMMARY OF POTENTIAL IMPACTS ON BIG GAME***

Alternative Route	Impact	Special Status Wildlife	Miles of Impacts			Total
			NM	AZ	NV	
N4	L	Bighorn Sheep, Mountain Lion, Mule Deer	—	3.0	—	3.0
N4	L	Mountain Lion, Mule Deer, Bighorn Sheep (l)	—	3.0	—	3.0
N4	L	Mule Deer	—	60.1	—	60.1
S4	L	American Pronghorn Antelope	—	55.8	—	55.8
S4	L	American Pronghorn Antelope, Mule Deer	—	28.1	—	28.1
S4	L	Bighorn Sheep	—	—	2.7	2.7
S4	L	Bighorn Sheep (s)	—	—	5.5	5.5
S4	L	Bighorn Sheep, Mountain Lion, Mule Deer	—	3.0	—	3.0
S4	L	Mountain Lion, Mule Deer, Bighorn Sheep (l)	—	3.0	—	3.0
S4	L	Mule Deer	—	15.8	—	15.8
*These data reflect impacts on habitat, whether occupied or not, for each species listed.						
m = migration corridor w = winter range s = summer range cw = critical winter range yr = year-long range l = lambing grounds						